

Printed Board Handling and Storage Guidelines

1 INTRODUCTION

1.1 Background Historically, the printed board industry has relied on military specifications and guidelines to define packaging methods to preserve the quality and reliability of printed boards during shipment and storage. However, many of these documents are obsolete, incomplete, do not address Pb-free assembly processes, or do not cover newer laminates or final finishes.

1.2 Scope This document provides suggestions for proper handling, packaging materials and methods, environmental conditions, and storage for printed boards. These guidelines are intended to protect printed boards from contamination, physical damage, solderability degradation, electrostatic discharge (ESD) (when necessary), and moisture uptake. Moisture absorbed in printed board laminates expands at soldering temperatures, and in some cases, the resulting vapor pressure can cause internal delamination or excessive strain on plated-hole walls and other structures. This is especially challenging with the higher temperatures used for Pb-free soldering.

This document covers all phases from the manufacture of the bare printed board, through delivery, receiving, stocking, assembly, and soldering. As a guideline, this information is to be used with, and is secondary to, established requirements in such documents as the IPC-4550 series for final finishes.

1.3 Application The target audience includes those involved in all phases of printed board design, manufacture, assembly, shipping, storage, and possible warranty activities. Information herein has been supplied for all of these functions.

1.4 Terms and Definitions The definition of all terms used herein are as specified in IPC-T-50 and as defined in 1.4.1 through 1.4.6.

1.4.1 Humidity Indicator Card (HIC) An indicator of relative humidity in the form of a card with printed deposits of moisture-sensitive chemicals, usually as round dots arranged in sequence, each changing color at a higher relative humidity. Color will change (depending on the chemicals, either from blue to pink or from brown to azure) when humidity exceeds the value printed on the dot. When humidity decreases, color will change back (to blue or brown).

1.4.2 Moisture Barrier Bag (MBB) A bag designed to restrict the transmission of water vapor and used to pack moisture sensitive devices. An MBB is made of material with a low Water Vapor Transmission Rate (WVTR) (see 4.2.1). An MBB includes a metallized layer (aluminum), making the bag appear shiny and opaque.

1.4.3 Subcomposite In sequential lamination, a structure composed of more than two layers that have been laminated together, and which will subsequently be laminated with other layers into a complete printed board.

1.4.4 Water Vapor Transmission Rate (WVTR) A measure of the permeability of plastic film or metallized plastic film material to moisture, an important rating for moisture barrier bags (MBBs).

1.4.5 Sulfur Free Materials that are unlikely to express corrosive sulfur compounds like H_2S or SO_2 .

1.4.6 Dry Packaging Packaging that consists of desiccant material and a Humidity Indicator Card (HIC) sealed with the printed boards inside a Moisture Barrier Bag (MBB) (See 4.3.1).

1.5 Revision Level Changes Changes incorporated into the current revision of this standard are indicated throughout by gray shading of the relevant subsection(s). Changes to a figure or table are indicated by gray shading of the figure or table header and applicable content.

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Table of Contents Printed Board Handling And Storage Guidelines Ipc

1. Understanding the eBook Printed Board Handling And Storage Guidelines Ipc
 - The Rise of Digital Reading Printed Board Handling And Storage Guidelines Ipc
 - Advantages of eBooks Over Traditional Books
2. Identifying Printed Board Handling And Storage Guidelines Ipc
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Printed Board Handling And Storage Guidelines Ipc
 - User-Friendly Interface
4. Exploring eBook Recommendations from Printed Board Handling And Storage Guidelines Ipc
 - Personalized Recommendations
 - Printed Board Handling And Storage Guidelines Ipc User Reviews and Ratings
 - Printed Board Handling And Storage Guidelines Ipc and Bestseller Lists
5. Accessing Printed Board Handling And Storage Guidelines Ipc Free and Paid eBooks

- Printed Board Handling And Storage Guidelines Ipc Public Domain eBooks
 - Printed Board Handling And Storage Guidelines Ipc eBook Subscription Services
 - Printed Board Handling And Storage Guidelines Ipc Budget-Friendly Options
6. Navigating Printed Board Handling And Storage Guidelines Ipc eBook Formats
- ePub, PDF, MOBI, and More
 - Printed Board Handling And Storage Guidelines Ipc Compatibility with Devices
 - Printed Board Handling And Storage Guidelines Ipc Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Printed Board Handling And Storage Guidelines Ipc
 - Highlighting and Note-Taking Printed Board Handling And Storage Guidelines Ipc
 - Interactive Elements Printed Board Handling And Storage Guidelines Ipc
8. Staying Engaged with Printed Board Handling And Storage Guidelines Ipc
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Printed Board Handling And Storage Guidelines Ipc
9. Balancing eBooks and Physical Books Printed Board Handling And Storage Guidelines Ipc
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Printed Board Handling And Storage Guidelines Ipc
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Printed Board Handling And Storage Guidelines Ipc
- Setting Reading Goals Printed Board Handling And Storage Guidelines Ipc
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Printed Board Handling And Storage Guidelines Ipc
- Fact-Checking eBook Content of Printed Board Handling And Storage Guidelines Ipc
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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